G-86N

This structure is a single-barreled corrugated metal pipe culvert, located in the drainage ditch on the west side of U.S. 27, discharging into the north side of C-11. Control is effected by stop logs in a CMP riser pipe.

PURPOSE

This structure, together with S-9XN, controls the water levels adjacent to and immediately east of Water Conservation Area 3A, thus limiting seepage from the Conservation Area. It also discharges excessive rainfall and seepage flows into C-11 for pumping back to Conservation Area 3A, or for discharge to tidewater.

OPERATION

Stop Logs are normally set with a crest elevation of 5.5 feet.

FLOOD DISCHARGE CHARACTERISTICS

There is no design discharge for this structure.

DESCRIPTION OF STRUCTURE

Type: Corrugated metal pipe culvert

Number of barrels: 1

Size of Barrel: 60 inches

Length of Barrel: 135 feet

Flow line elevation: - 1.0 feet

Service Bridge Elevation: 7.14 feet

(Top of Header): 7.05 feet

Water level which will by-pass structure: 9.64 feet

Control: Discharge is controlled by stop logs placed in a CMP riser pipe on the north end of the structure.

Riser Pipes:

Diameter of Riser: 96"

Top of Riser Elevation: 7.0 feet

Stop Logs:

Number: 16 (2 sets of 8)

Size: 7.5" X 2.5" X 47½" long

Reference Elevation 7.0 feet

Approximate Crest Elevation:

Number of Boards In	Number of Boards Out	Crest Elev. (feet)	Measurement to Boards (feet)
8	0	5.90	1.10
7	1	5.28	1.72
6	2	4.65	2.35
5	3	4.02	2.98
4	4	3.40	3.60
3	5	2.78	4.22
2	6	2.15	4.85
1	7	1.52	5.48
0	8	0.90	6.10

ACCESS: Structure is located on U.S. Highway 27 at C-11.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: Upstream and downstream staff gauges